STATISTICS: NORMAL DISTRIBUTION, STANDARD DEVIATION, AND CONFIDENCE INTERVALS - PRACTICE TEST | NEW BRUNSWICK FOUNDATIONS OF MATHEMATICS 120 · UNIT A · 10 QUESTIONS

# Statistics: Normal Distribution, Standard Deviation, and Confidence Intervals — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **For a value 76 with mean 70 and standard deviation 3, the z score is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **For a value 95 with mean 85 and standard deviation 5, the z score is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In a normal distribution with mean 100 and standard deviation 15, the value two standard deviations above the mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In a normal distribution with mean 50 and standard deviation 10, the value two standard deviations above the mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **In a normal distribution with mean 80 and standard deviation 8, the value two standard deviations above the mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **In a normal distribution with mean 60 and standard deviation 5, the value two standard deviations above the mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **In a normal distribution with mean 200 and standard deviation 20, the value two standard deviations above the mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **In a normal distribution with mean 40 and standard deviation 4, the value two standard deviations above the mean is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **In a normal distribution with mean 100 and standard deviation 15, about what percent of values lie within one standard deviation of the mean**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **In a normal distribution with mean 50 and standard deviation 10, about what percent of values lie within one standard deviation of the mean**

ANSWER _____

Understand It with Pulse | Flag a mistake

## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | 2 | **5.** | 96 | **9.** | 68 |
| **2.** | 2 | **6.** | 70 | **10.** | 68 |
| **3.** | 130 | **7.** | 240 | | |
| **4.** | 70 | **8.** | 48 | | |

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